



interrupt threshold "critical section"

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Synchronization and communication in the T3E multiprocessor

SL Scott - Proceedings of the seventh international conference on ..., 1996 - portal.acm.org

... store-conditional implementations place restrictions on the types of operations that can be performed in the **critical section** (eg: no ... set to **interrupt** on arrival, never **interrupt** (in which case messages are detected via polling), or **interrupt** only when some **threshold** number ...

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Events: a structuring mechanism for a real-time runtime system

M Donner, D Jameson ... - Real Time Systems ..., 2002 - ieeexplore.ieee.org

... [5]. Events may be internal or external. External events might be: Timer t has ticked. Sensor s has passed **threshold** B. 1/0 **interrupt** i has arrived. An internal event may be, for example: Variable v has changed. Boolean B has become false. Strip S has finished execution. ...

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The cyclic executive model and Ada

TP Baker ... - Real-Time Systems, 1989 - Springer

... sharing, typically implemented by critical sections, can be handled simply by defining each **critical section** as an ... to log overruns, and if the number of consecutive overruns exceeds some preset **threshold**, a fault ... A hardware **interrupt** is handled as a special case of a rendezvous ...

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K Morgan - MontaVista Software, 2001 - openmotif.opengroup.org

... cases, the locking function acts as a control on reentrancy to a **critical section** of kernel ... **interrupt** management requests from Linux, and thereby reduce the worst case **interrupt** off timings ... load on non-preemptible Linux causes user process delays that exceed the **threshold** of the ...

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Mutual exclusion of locally byzantine processes

J Beauquier - Distributed Computing Systems in the 1990s, ..., 2002 - ieeexplore.ieee.org

... The solution consists in a main program and two **interrupt** - handlers, that are similar for all Gi's ... used to obtain a consensus among the Gi, on what Gi to allow to enter its **critical section** ... to provide to each Gi an infinite sequence of shadows (in the sense of **threshold** schemes, Cf ...

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Isochronous scheduling and its application to traffic control

M Iwasaki, T Takeuchi, M Nakahara ... - Real-Time Systems ..., 2002 - ieeexplore.ieee.org

... the current thread is in a non- preemptable state when a timer **interrupt** occurs, the ... Therefore, to prevent unexpected termination inside the preemptable **critical section**, each kernel thread issues a ... a physical segment is suppressed so that it does not exceed a certain **threshold** ...

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D Marinescu - Automatic Control, IEEE Transactions on, 2002 - ieeexplore.ieee.org

... and S. B. Gershwin, "The uncertainty **threshold** principle: Some fundamental limitations of optimal decision ... does not allow preemption, for example, a process running into a **critical section** must complete ... A process with a higher priority cannot **interrupt** the execution of a process ...

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Mostly lock-free malloc

D Dice ... - ... of the 3rd international symposium on ... 2002 - portal.acm.org

... Critically, the notification routine executes before control could pass back into an **interrupted critical section** ... A restartable **critical section** can traverse such a list without any locking. ... if the proportion of free blocks to in-use blocks in the local heap passes the emptiness **threshold** ...

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Rate-monotonic analysis for real-time industrial computing

MH Klein, JP Lehoczky ... - Computer, 2002 - ieeexplore.ieee.org

... For example, T, is considered a single task but is composed of two system subtasks: (1) an **interrupt** service routine and (2) servo control, which executes only ... In other words, a **threshold** U: exists such that, if the utilization of a task set consisting of n periodic tasks, $U = C, IT \dots$

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Implementing MPI under AP/Linux

D Sitsky, P Mackerras, A Tridgell ... - MPI Developer's ..., 2002 - ieeexplore.ieee.org

... The user should be able to select whether polling and/or **interrupt** techniques are used to detect the array size will be sent using the in-place method, while those greater than the **threshold** size are ... If a **critical section** is interrupted by a signal, the handler returns immediately. ...

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[Localizing failures in distributed synchronization](#)

M Choy... - Parallel and Distributed Systems, IEEE ..., 2002 - ieeexplore.ieee.org

... Fig. 1. It provides a procedure Ruaeld, and the underlying algorithm provides an interrupt handler. A process ... The execution of these processes is interrupted and each of them executes an interrupt handler. Upon completion of ...

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... Interrupt and exception handler procedures provide also a compatibility layer required to implement L4 interrupt and exception protocols. 2.4. ... threshold task ... avoids priority inversions and limits worst-case response latency time to the time required to complete a critical section. ...

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PA Bernstein - COMPUTER, 1988 - computer.org

... blocks, the PE uses the following mutual exclusion protocol: Get test-and-set lock Invalidate non-dirty cache ***Critical Section Code *** Flush ... This activity could easily be automated by establishing a threshold for waiting time, above which repartitioning should be automatically ...

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O Synchronization - 2004 - Citeseer

... for such cases, simply by adjusting the frequencies (this would become a threshold value for the ... to enter a critical section while another process is currently inside a critical section? ... Short instructions, like interrupt calls or similar constructs for entering another code part, gets ...

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... such cases, simply by adjusting the frequencies (this would become a threshold value for ... to enter their critical sections while another active process is currently inside a critical section? ... Short instructions, like interrupt calls or similar constructs for entering another code part, get ...

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J Rushby - 1995 - Citeseer

... (Dissimilar designs cannot be expected to produce bit-for-bit identical behavior, so threshold voting has to be used.) Like other problems involving synchronization and coordination of concurrently active distributed components, redundancy management|whether of identical or ...

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SS Fu... - ... 'Frontiers' 96., Sixth Symposium on the, 2002 - ieeexplore.ieee.org

... After the application program finishes with the critical section, it calls Lock-release(Z) to release ... case of the recursion is encountered when the partition size reaches a threshold of 512 ... tion by using the Berkeley sockets interface and employs a SIGIO signal (interrupt) handler to ...

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J Beauquier - Semantics of Systems of Concurrent Processes, 1990 - Springer

... are given in annexe 2. The solution consists in a main program and two interrupt-handlers, that ... a consensus among the Gi's, on the particular Gj that should be allowed to enter its critical section. ... to each Gi an infinite sequence of shadows (in the sense of threshold schemes, Cf. ...

[All 4 versions](#)[Two distributed problems involving involving byzantine processes* 1](#)

J Beauquier - Theoretical Computer Science, 1992 - Elsevier

... in =true do nil; G; already made an svc for entering without exiting threshold (s, n ... ljs); using Lagrange's interpolation polynomials in := true; jump to(s); (enter the critical section end; Interrupthandler ... end; 182 J Beauquier Recall that it is assumed that the two interrupt handlers ...

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D Ponomarenko, K Ghose... - Euro-Par 2001 Parallel Processing, 2001 - Springer

... wait is one of a longer duration, the process might find its critical section available at ... time, such service does not offer any improvement compared to a traditional interrupt-based mechanism ... a minimum or its deviation from the minimum does not exceed a predefined threshold. ...

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